## 2.08 DYSRHYTHMIA: TACHYCARDIA

## **PUBLIC COMMENT OCTOBER 2024**

#### **BLS Treatment**

- Position of comfort.
- Primary Survey: identify and immediately correct life threats
- ABCs, vital signs and oxygen as indicated
- Secondary Survey: relevant physical examination of the patient
- Call for ALS resource if patient is symptomatic
- NPO
- Oxygen as indicated.

#### **ALS Treatment**

Current American Heart Association Guidelines concerning Emergency Cardiac Care assessments and interventions shall always take precedence over local protocols when there is a conflict concerning techniques of resuscitation.

- IV/IO with Normal Saline TKO, preferably at antecubital fossa.
- 12-lead EKG (If symptomatic, do not delay therapy in order to obtain 12 lead).
- Treat if >150 BPM and patient is symptomatic.

#### STABLE REGULAR AND NARROW (QRS < 0.12 seconds):

- Vagal maneuvers (Valsalva, cough or breath holding).
- Adenosine

# STABLE REGULAR AND WIDE (QRS > 0.12 seconds):

- Amiodarone
- Give Magnesium Sulfate in suspected hypomagnesemia

#### **STABLE TORSADES de POINTES**

 For Torsades de Pointes, a Administer Magnesium Sulfate.

#### **HEMODYNAMICALLY UNSTABLE: NARROW OR WIDE**

- Synchronized cardioversion (refer to Protocol 7.19 Cardioversion)
- If sedation is needed for awake patient during anticipated cardioversion may strongly consider administer Midazolam

#### If UNSTABLE, NARROW, and REGULAR and synchronized cardioversion fails:

Administer Adenosine may be substituted for cardioversion

#### If UNSTABLE AND WIDE and synchronized cardioversion fails:

Administer Amiodarone.

### **HEMODYNAMICALLY UNSTABLE IRREGULAR AND WIDE (Including Torsades de Pointes)**

• If unable to synchronize (including Torsades de Pointes) go directly to unsynchronized

## cardioversion (defibrillation),

• Give Magnesium Sulfate for Torsades de Pointes

## **Base Hospital Contact Criteria**

 Contact Base Hospital physician if considering medications in addition to Midazolam for sedation.

#### Comments

## **ATRIAL FIBRILLATION**

- Only administer synchronized cardioversion for atrial fibrillation if patient is unstable.
- Hemodynamically unstable patients may be defined as a heart rate >150 bpm with associated signs and symptoms: hypotension, acutely altered mental status, signs of shock, significant ischemic chest discomfort, shortness of breath, or pulmonary edema likely due to the arrhythmia.
- This protocol is not intended to treat tachycardia that is secondary to underlying conditions (e.g. dehydration, trauma, sepsis or toxins)
- Do not use Adenosine in patients with 2<sup>nd</sup> or 3<sup>rd</sup> degree heart blocks, sick sinus syndrome, polymorphic ventricular tachycardia, or known history of Wolff-Parkinson-White (WPW)
- Midazolam is not contraindicated if SBP is < 90 if used for pre-procedural sedation</li>

SAN FRANCISCO EMS AGENCY

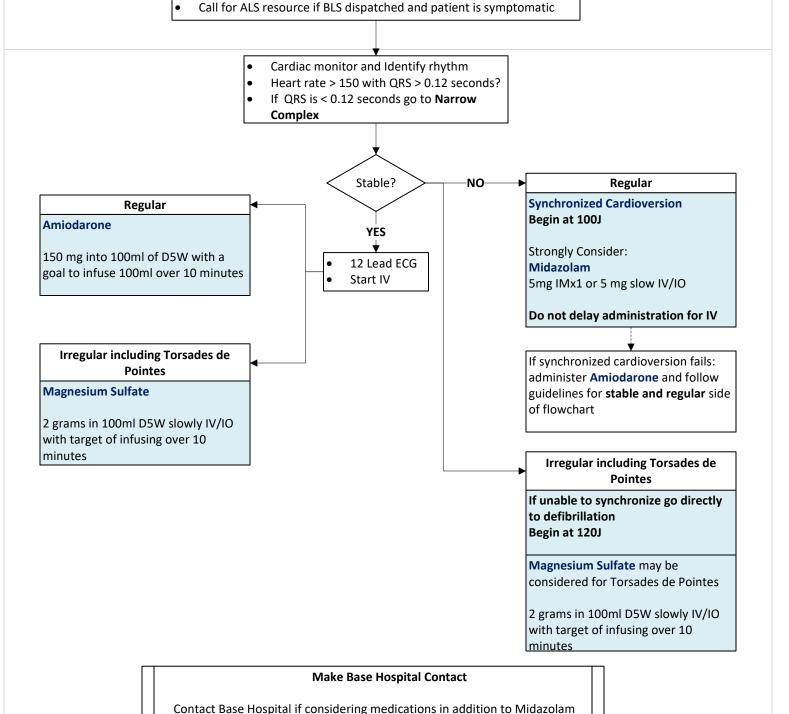
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Supersedes: 03/01/2015

# 2.08 DYSRHYTHMIA: TACHYCARDIA (WIDE COMPLEX) PUBLIC COMMENT OCTOBER 2024 BLS – FAQ Link Primary Survey: Identify and immediately correct life threats

**Secondary survey**: relevant physical examination of the patient

ABCs, vital signs and oxygen as indicated



#### **Comments**

- Hemodynamically unstable patients may be defined as a heart rate >150 bpm with associated signs and symptoms: hypotension, acutely altered mental status, signs of shock, significant ischemic chest discomfort, shortness of breath, or pulmonary edema likely due to the arrhythmia
- Midazolam is not contraindicated if SBP is <90 if using for pre-procedural sedation</li>
- This protocol is not intended to treat tachycardia secondary to underlying conditions (i.e. dehydration, trauma, sepsis, or toxins)

Effective: mm/dd/yy Supersedes: mm/dd/yy

**DRAFT** 

#### **BLS - FAQ Link** Primary Survey: Identify and immediately correct life threats **DRAFT** ABCs, vital signs and oxygen as indicated Secondary survey: relevant physical examination of the patient Call for ALS resource if BLS dispatched and patient is symptomatic Cardiac monitor and Identify rhythm **ALS** Heart rate > 150 with QRS < 0.12 seconds? Identify underlying causes NO-If QRS is > 0.12 seconds go to Wide Complex YES 12 Lead ECG Stable? NO Regular Vagal maneuvers Synchronized Cardioversion Begin at 70J Did rhythm convert? NO Strongly Consider: Midazolam Start IV Monitor for recurrence: 5mg IMx1 or 5 mg slow IVP Repeat 12 lead **Adenosine** Identify underlying causes Do not delay administration for IV First dose: 6mg rapid IVP followed by 20 ml flush If synchronized cardioversion fails, administer Adenosine and follow guidelines under stable side of Did rhythm convert? YES flowchart NO **Adenosine** 12 mg rapid IVP followed by 20ml flush. **Irregular Synchronized Cardioversion** May repeat 12mg x1if no Begin at 120J conversion occurs after second YES/NO dose Did rhythm convert? **Make Base Hospital Contact** Contact Base Hospital if considering medications in addition to Midazolam

2.08 DYSRHYTHMIA: TACHYCARDIA (NARROW COMPLEX) PUBLIC COMMENT OCTOBER 2024

#### Comments

- Hemodynamically unstable patients may be defined as a heart rate >150 bpm with associated signs and symptoms: hypotension, acutely altered mental status, signs of shock, chest pain, shortness of breath, or pulmonary edema likely due to the arrhythmia
- Do not use Adenosine in patients with 2nd or 3rd degree heart blocks, sick sinus syndrome, or known history of Wolff-Parkinson-White (WPW)
- This protocol is not intended to treat tachycardia secondary to underlying conditions (e.g. dehydration, trauma, sepsis, or toxins)
- Midazolam is not contraindicated if SBP <90 if using for pre-procedural sedation.</li>

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